

S/030/62/000/003/001/007
B105/B102

Results of the scientific...

photographed by the new 2.6-m telescope; synthesis of high-temperature organosilicon polymers; study of the transformation from chemical into mechanical energy; discovery of a new beryllium phosphate at Sverdlovsk; production of polysulfide polymers featuring increased thermal stability at Kazan'; research into hail formation at Tbilisi and Nal'chik. The slowness by which automation is introduced at the Vil'nyusskiy zavod schetnykh mashin (Vil'nyus Computer Factory) is deplored. Great difficulties are still encountered in the staff selection. Soviet scientists are intensifying their cooperation with scientists throughout the world. More than 4000 biochemists from all over the world attended the 5th International Biochemical Congress held in the Soviet Union in 1961.

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FEDOROV, Yu. K., akademik

Does humanity have sufficient natural resources? Nauka i zhizn'
29 no.9:25-28 S '62. (MIFA 15:10)

(Population) (Natural resources)

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000412630014-0

FEDOROV, Ye.K., akademik

Active influence on meteorological processes. Vest. AN SSSR
32 no.9:78-85 S '62. (MIRA 15:9)
(Weather control)

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CIA-RDP86-00513R000412630014-0"

KELDYSH, M.V., akademik; FEDOROV, Ye.K., akademik; ARTSEMOVICH, L.A., akademik; SISAKYAN, A.M., akademik; GORESKIY, I.I.; KAFITSA, P.L.; FOK, V.A.; LANDAU, L.D.; LIFSHITS, Ye.M.; SHAL'NIKOV, A.I.; MEIATHIKOV, I.M.; ALIEF SEYEVSHEY, N.Ye.; VAYNSHTEYN, L.A.; PALLADIN, A.V., akademik; SATFAYEV, T.I., akademik; AMBARTSUMYAN, V.A., akademik; KUPREVICH, V.F.; MUSHVELISHVILI, N.I., akademik; KARAKEYEV, F.K.; MUSTEL', E.R.; MASEVICH, A.G., doktor fiz.-matem.nauk; EFRON, K.M.; MARTYNOV, D.Ya., prof.; GRIGOR'YEV, A.A., akademik; MAROV, K.K., prof.; COLOVKOVA, A.G., prof.; FILATOVA, L.G., prof.; FEYVE, Ya.V.; SEMIKHATOV, B.N., prof.; TILOV, A.G.; RYCHAGOV, G.I.; BARSAYA, V.F.; VLASOVA, A.A.; BARANOVA, Ye.P.; KIBARDINA, L.A.; ISACHENKO, A.F.; IL'INA, Yu.P.; DANILOV, A.I., prof.; PLAUCHE, K.K.; NECHAYEVA, T.N., prof.; CHEPER, L., doktor; SZANTO, Ladislav, akademik; BELACHIK, Yozef; FAN KLOK V'YEN; EIGENSON, M.S., prof. (L'vov); STARKOV, N.; AERAMOVICH, Yu.; VOSKRESENSKIY, V.; KROPACHEV, A.; REZVOY, D., prof., (L'vov); KONDRADEV, V.N., akademik; LEBEDINSKIY, V.I., kand.geol.-mineral.-nauk; YANSHIN, A.L., akademik

"Priroda" is 50 years old. Priroda 51 no.1:3-16 Ja '62.
(MIRA 15:1)

1. Prezident AN SSSR (for Keldysh). 2. Glavnnyy uchenyy sekretar' Prezidiuma AN SSSR (for Fedorov). 3. Akademik-sekretar' Otdeleniya fiziko-matem.nauk AN SSSR (for Artsimovich). 4. Akademik-sekretar' Otdeleniya biologicheskikh nauk AN SSSR (for Sisakyan). 5. Chlen-Otdeleniya korrespondent AN SSSR, zamestitel' akademika-sekretarya Otdeleniya
(Continued on next card.)

FEDOROV, Ye.K., akademik

State of and outlook for the development of the Hydrometeorological Service of the U.S.S.R. Meteor. i gidrol. no.3;3-12 Mr '63.
(MIRA 16:3)

1. Nachal'nik Glavnogo upravleniya gidrometeorologicheskoy sluzhby
pri Sovete Ministrov SSSR.

(Meteorology)

FIODOROW, E.K. [Fedorov, Ye.K.]; ROJECKI, A. [translator]

Reorganization of the techniques of hydrological and
meteorological surveying in the U.S.S.R. Przegl geofiz
9 no. 2:151-156 '64.

1. Member of the Academy of Sciences of the U.S.S.R.
(for Fedorov).

FEDOROV, Ye.K., akademik

Reequipping hydrometeorology. Vest.AN SSSR 34 no. 1:16-21
Ja '64. (MIRA 17:5)

1. Nachal'nik Glavnogo upravleniya gidrometeorologicheskoy
sluzhby pri Sovete Ministrov SSSR.

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FEDOROV, Ye., akademik

In the name of earth. Weather and space. 'Av.1 kosm. 46 no.1:
41-46 Ja '64.
(MIRA 17:3)

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CIA-RDP86-00513R000412630014-0"

KONDRAT'YEV, K.Ya., doktor fiz.-mat. nauk, prof.; KROSHKIN, M.G.,
kand. fiz.-mat. nauk; MORACHEVSKIY, V.G., kand. fiz.-.
mat. nauk; FEDOROV, Ye.K., akademik, red., VETLOV, I.P.,
kand. fiz.-mat. nauk, otv. red.; BOYKOVA,A.G., red.

[Our planet from space; an album of photographs] Nasha
planeta iz kosmosa; al'bom fotografii. Leningrad, Gidro-
meteoizdat, 1964. 50 p. (MIRA 18:2)

ACCESSION NR: AP4041150

8/0020/64/156/004/0806/0809

AUTHOR: Lebedev, S. L.; Fedorov, Ye. K.

TITLE: Nonstationary onedimensional model of a convective cloud

SOURCE: AN SSSR. Doklady*, v. 156, no. 4, 1964, 806-809

TOPIC TAGS: weather forecasting, nonstationary convective cloud model, vertical temperature distribution, water content, dew point vertical distribution, geo-physics, meteorology

ABSTRACT: In the problem of a nonstationary convective cloud, in addition to the fundamental quantities such as specific total water content, vertical velocity, and temperature of the cloud air, certain other quantities must be considered: the gravitational drop fall, turbulent mixing along the vertical, and the processes outside the cloud region. The fundamental quantities are sought as functions of time and height, in a vertical cylinder with values averaged over horizontal sections. Nine equations connect quantities such as atmospheric pressure, air density, temperature, specific water content, pressure of saturated vapors at a given temperature, coefficient of turbulence, specific heat of air at constant

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rate of condensation, average velocity of rain drop fall, gravitational acceleration. The equations are solved numerically for nine unknown functions of interest with assumed boundary conditions, by using the computer BESM-2, and the results are illustrated in diagrams. Orig. art. has: 4 figures.

ASSOCIATION APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412630014-0" Institute prikladnoy geofiziki (Institute of Applied Geophysics)

SUBMITTED: 25Jan64

ENCL: 00

SUB CODE: ES

NO REF ID: 002

OTHER: 002

Card 2/2

L 10375-67 EWT(1) GW

ACC NR: AP7003059

SOURCE CODE: UR/0050/66/000/006/0003/0011

AUTHOR: Fedorov, Ya. K. (Academician, Head of administration)ORG: Main Administration of the Hydrometeorological Service (Glavnoye upravleniye
gidrometeorologicheskoy sluzhby)TITLE: Some results and prospects of scientific work of the Institutes of the
Hydrometeorological Service (1965-1966)

SOURCE: Meteorologiya i gidrologiya, no. 6, 1966, 3-11

TOPIC TAGS: hydrometeorology, long range weather forecasting

ABSTRACT: This article is an overall assessment of the work of the Hydro-meteorological Service in 1965-1966 by its director, who also gives some indications of future trends in the work. As such, it is an authoritative view of the work of meteorological services in the USSR at the present time. Ten percent of all workers in the Soviet meteorological service are affiliated with the scientific research institutes, although only 1% of the budget is devoted to work on phenomena harmful to the national economy. Much of the work of the scientific research staff is devoted to solution of practical problems. Although during the past year there has been much new and useful work done in the field of long-range forecasting there has been no corresponding improvement in the quality of the forecasts. There has been greater progress in 3-5 day forecasts and their quality slowly but surely is approaching that of 24-hour forecasts. Numerical methods are being used increasingly in 24-hour fore-

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UDC: 551.46/58

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casts and are improving the quality of forecasts. Forecasting for ships enroute to Cuba and Canada has yielded substantial savings in travel time and plans for 1966 call for similar meteorological servicing for ships using Pacific Ocean sea lanes. Available methods for scattering super-cooled clouds and fogs are entirely reliable, but their use is a matter of economics. The area to be protected against hail is to be increased to approximately 800-900 thousand hectares this year. If this is effective, in the next few years all parts of the USSR with a significant hail danger will be placed under protection -- approximately 4-5 million hectares. The cost of such protection is about 1% of the value of the harvest. On the other hand, there has been no substantial progress in the redistribution of precipitation and inducing additional precipitation. Work will continue, however, and increasing precipitation accumulation in the mountains is regarded as particularly desirable. The dissipation of thunderstorms probably will be possible with an effectiveness equal to hail prevention. There has been no significant progress in modifying warm clouds. Information also is given on: investigations of climate and agrometeorological resources, study of the water balance and water resources, investigations of the world ocean and work in the Arctic and Antarctica and development of instruments and methods. The author feels that the efforts of the service are being spread too thin, with labor divided between too many projects, and too little progress achieved in any. He proposes crash programs to solve the problems most vital to the national economy, postponing others. - [JPRS-97,710]

SUB CODE: 04 / S⁴ DATE: none
Card 2/2 JGS

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to
Fedorov, Ye. K

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